

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 925 (1966): Pocket Knives [MTD 31: Utensils, Cutlery and Domestic Hardwares]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 925 - 1966
(Reaffirmed 1990)

Indian Standard
**SPECIFICATION FOR
POCKET KNIVES**
(*Revised*)

Second Reprint NOVEMBER 1991.

UDC 672.712

© *Copyright* 1966

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR POCKET KNIVES

(Revised)

Cutlery Sectional Committee, CPDC 6

Chairman

COL V. N. PILLAY

Representing

Ministry of Defence (DGI)

Members

- SHRI A. R. A. KRISHNAN (*Alternate to*
Col V. N. Pillay)
- SHRI R. S. BHATIA Germany Art Industries (Regd) India, New Delhi
SHRI G. S. BHATIA (*Alternate*)
- SHRI J. D. DAROGA Italab Engineering Private Ltd, Bombay
DIRECTOR OF CLOTHING AND INDIAN NAVY
VICUALLING
- SENIOR NAVAL STORE OFFICER
(*Alternate*)
- SHRI A. P. GOEL Goel Steel Works, Meerut
SHRI J. D. JAIN Ashok Metal Industries Ltd, Calcutta
SHRI A. K. JAIN (*Alternate*)
- SHRI A. R. KAPOOR Directorate of Industries, Government of Uttar
Pradesh
Indian Trading Corporation, Aligarh
- SHRI KEWAL KRISHAN Office of the Development Commissioner, Small
SHRI S. L. RAJPOOT (*Alternate*) Scale Industries (Ministry of Industry)
SHRI D. MAJUMDAR
- SHRI S. C. ABROL (*Alternate*) Giftsland, Allahabad
SHRI GAURI NATH MEHBAY (*Alternate*)
- SHRI PRAN NATH MEHBAY (*Alternate*) The Metal Industries Ltd, Shoranur
SHRI C. P. KARUNAKARA MENON
SHRI KRISHNA KUMAR MENON
(*Alternate*)
- SHRIMATI LILAVATI MUNSHI All India Women's Central Food Council (Regd),
Bombay
- SHRIMATI B. TARA BAI (*Alternate*)
- SHRI M. NIRULA The Federation of Hotel & Restaurant Associations
of India, New Delhi
- SHRI P. ANANDA RAU (*Alternate*)
(Madras)
- SHRI MANMOCK S. SHAW (*Alternate*)
(Bombay)
- SHRI S. N. SINGH (*Alternate*)
(Calcutta)
- SHRI M. S. OBEROI Oberoi Hotels (India) Private Ltd, Delhi
SHRI T. R. OBEROI (*Alternate*)

(*Continued on page 2*)

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

(Continued from page 1)

Members

SRI ASHWANI KUMAR PASBICHA
KUMARI T. E. PHILIP

REPRESENTATIVE
SRI YOGI RAJ (*Alternate*)
SRI S. SEN GUPTA

SENIOR COMMERCIAL OFFICER
(CATERING), N O R T H E R N
RAILWAY

SRI SHIVNATH
SRI S. B. JOSHI (*Alternate*)
SRI B. K. THAKOOR
SRI G. D. THAKOOR

SRI J. E. YORKE (*Alternate*)
SRI A. B. RAO,
Director (Consr Prod)

Representing

Krishan Chand Bajaj & Co, New Delhi
Institute of Catering Technology & Applied Nutri-
tion, Bombay

Messrs Hakimrai Jaichand, Bombay

Directorate of Industries, Government of West
Bengal

Railway Board (Ministry of Railways)

Air India, Bombay

Thakoor Metal Industries, Bombay
The Oriental Metal Pressing Works Private Ltd,
Bombay

Director General, ISI (*Ex-officio Member*)

Secretary

SRI PRATAP SINGH

Assistant Director (Consr Prod), ISI

Household Cutlery Subcommittee, CPDC 6 : 2

Convener

SRI S. P. TRIPATHI

Ministry of Defence (DGI)

Members

SRI MATI SANTOSH ANAND

Bharatiya Grihaxmi Samaj (Indian Housewives
Association), New Delhi

SRI A. R. KAPOOR

Directorate of Industries, Government of Uttar
Pradesh

SRI SUKUMAR KAR
SRI T. D. KARMAKAR
SRI D. MAJUMDAR

Great Eastern Cutlery Works, Calcutta
Standard Tools Co, Purulia
Office of the Development Commissioner, Small
Scale Industries (Ministry of Industry)

SRI S. C. ABROL (*Alternate*)
SRI P. C. P. NAMBOODIRIPAD
SRI A. MUKUNDAN (*Alternate*)
SRI M. NIBULA

South India Metal Company, Shoranur
The Federation of Hotel and Restaurant Associations
of India, New Delhi

SRI RAM PRESHAD (*Alternate*)
REPRESENTATIVE
SRI YOGI RAJ (*Alternate*)
REPRESENTATIVE

Messrs Hakimrai Jaichand, Bombay
Sea Shore Traders, Madras

Indian Standard
**SPECIFICATION FOR
 POCKET KNIVES**
(Revised)

0. FOREWORD

0.1 This Indian Standard (Revised) was adopted by the Indian Standards Institution on 26 September 1966, after the draft finalized by the Cutlery Sectional Committee had been approved by the Consumer Products Division Council.

0.2 This standard was first published in 1958. It is one of a series of Indian Standard specifications on cutlery items prepared at the instance of the Chief Inspectorate of General Stores (Ministry of Defence) and Office of the Development Commissioner, Small Scale Industries (Ministry of Industry). Other standards published so far in the series are given at page 10.

0.3 Revision has been taken up on account of necessity to metricize the values given in the standard as also to include other requirements of pocket knives. Pocket knives are also known by the name pen knives in certain parts of the country.

0.4 This standard contains clauses which call for agreement between the purchaser and the supplier and which permit the purchaser to use his option for selection to suit his requirements. The relevant clauses are **3.1, 3.2, 4.4** and **9.1**.

0.5 This standard provides for alternative materials including brass and stainless steel. For the guidance of purchasers it is suggested that due to import restrictions only indigenous materials may be opted for in the indents.

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Rules for rounding off numerical values (revised).

1. SCOPE

1.1 This standard covers the requirements for pocket knives.

2. MATERIALS

2.1 **Blades** — The blades shall be made of carbon steel conforming to designation C70 of Schedule II or of stainless steel conforming to designation 30Cr13 of Schedule V of IS : 1570-1961* with sulphur and phosphorus not exceeding 0.05 percent each.

2.2 **Springs** — The springs shall be made from carbon steel conforming to designation T50 of Schedule VI of IS : 1570-1961* with sulphur and phosphorus not exceeding 0.05 percent each.

2.3 **Handle Scales** — The handle scales may be made of stainless steel, brass, wood, plastics, horn or mild steel (nickel plated).

2.4 **Rivets** — The rivets used shall be made of mild steel, brass, or stainless steel except hinge pin and central pin of blade, which shall be of medium carbon steel in normalized condition.

2.5 **Bolster** — The bolster, when provided, may be solid forged with the handle scales or made up of mild steel, brass or stainless steel.

3. SHAPES AND DIMENSIONS

3.1 Typical shapes of pocket knives are shown in Fig. 1 and 2. Fig. 1 shows a usual pocket knife with one blade, while Fig. 2 shows a pocket knife with one blade and a cork opener. However, the knives with different shapes may be supplied by prior agreement between the purchaser and the supplier.

3.2 The pocket knives shall be of the following sizes:

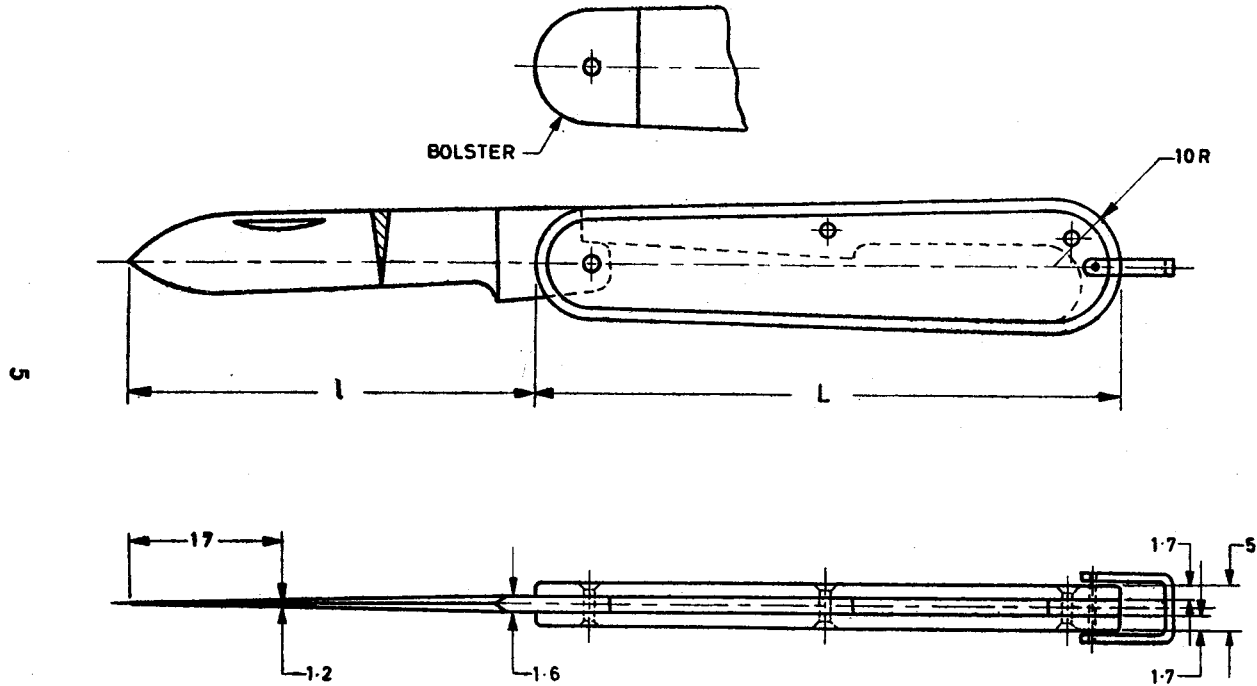
Blade length (l)	45, 55 and 65 mm
Handle length (L)	65, 75 and 85 mm

However, the detailed dimensions are left to the discretion of manufacturers and are subject to the agreement between the purchaser and the supplier.

4. MANUFACTURE

4.1 The handle scales shall fit closely to the metal lining except when the scales themselves form the body. The blade and the spring shall be so housed as not to have any gaps and the blade shall be free to open or close without shake or play.

*Schedules for wrought steels for general engineering purposes.



All dimensions in millimetres.

FIG. 1 POCKET KNIFE, TYPICAL

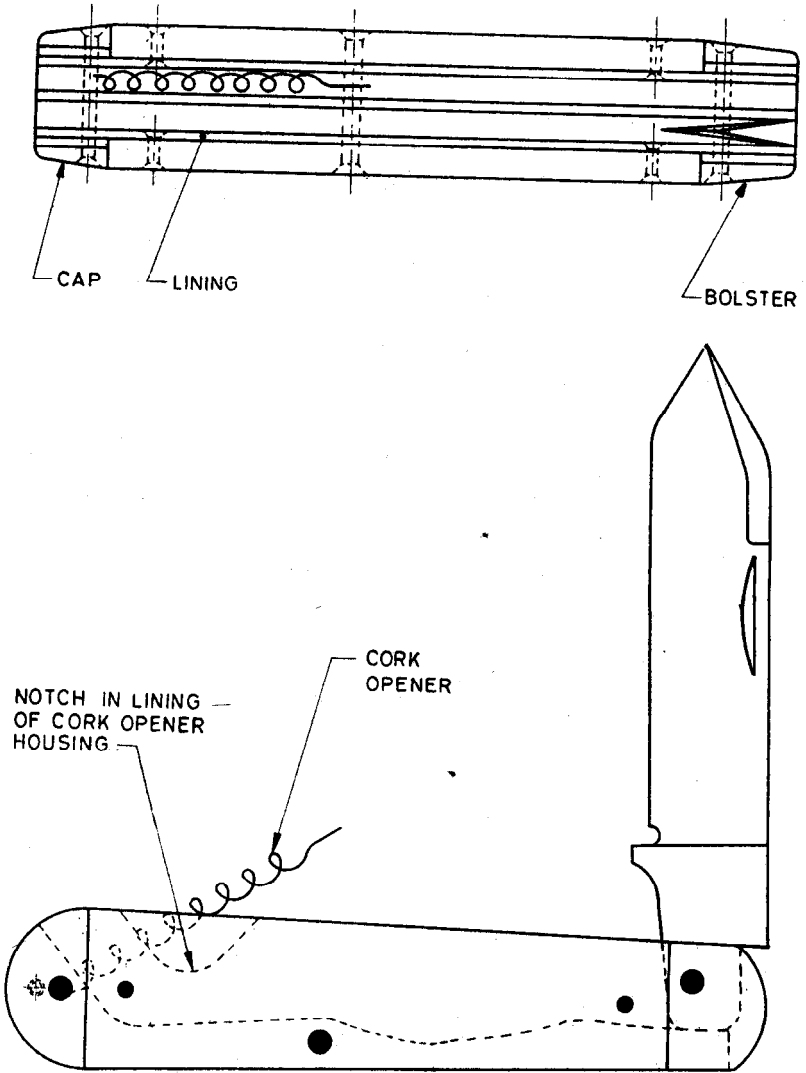


FIG. 2 POCKET KNIFE WITH CORK OPENER, TYPICAL

4.2 The cutting edge shall lie in the central plane of its housing and shall not strike any part of the spring when the knife is closed and the blade shall lie entirely in the recess provided in the handle so that it does not project beyond when knife is closed.

4.3 A nail groove shall be made on the blade for easy opening. The blade shall open easily under normal pull exerted by the hand.

4.4 A ratchet lock may also be provided if so desired by the purchaser.

5. HARDNESS

5.1 The blade shall be well and evenly hardened and tempered to give a hardness of 500 to 550 HV. The hardness shall be tested as near as practicable to the cutting edge.

6. WORKMANSHIP AND FINISH

6.1 The knife shall be free from cracks, seams, scales, pits, burrs and other defects. The blade shall taper uniformly towards the cutting edge.

6.2 The blades shall be free from rough grinding marks and shall be finished bright all over. The grinding of the blade shall give a uniform taper symmetrical on both sides. The entire length of the cutting edge shall be sharp and ready for use. The cutting edge shall be capable of cutting smoothly deodar and kail wood using moderate force.

7. MARKING

7.1 Each knife shall be legibly and indelibly marked, preferably by engraving or etching, on the blade with manufacturer's name, initials or registered trade-mark and the words ' Made in India '.

7.1.1 The knives may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

8. PACKING

8.1 The blade if made of carbon steel shall be coated with a suitable rust preventive. Each knife shall then be wrapped in a waxed paper or put in a polyethylene bag and then packed in cartons. Each carton shall bear the manufacturer's name or trade-mark, description of contents and the number of knives it contains, and the country of manufacture.

9. SAMPLING

9.1 Sampling and acceptance criteria for pocket knives shall be as agreed to between the purchaser and the supplier. A recommended scheme for the same is given in Appendix A.

10. TESTS

10.1 Practical Test for Soundness — The knife shall be made to strike 12 full blows from a height of 250 mm on an aluminium block of not less than 99 percent purity or on a block of well-seasoned timber, such as teak, sal, sissoo or rosewood. The timber employed shall have a moisture content of not more than 12 percent. The blows shall be struck in such a manner that practically the entire length of the cutting edge hits the surface of aluminium or wooden block. The cutting edge shall neither show any sign of distortion after the test nor there be any damage to any other part of the knife.

10.2 Staining Test for Knives Made of Stainless Steel — The stainless steel knife blade when dipped for 16 hours in the solution (*see 10.2.1*) shall not show any sign of staining after removal from the solution at the end of above period.

10.2.1 Five grams of glacial acetic acid (99 percent) dissolved in distilled water to make 100 ml.

A P P E N D I X A

(*Clause 9.1*)

RECOMMENDED SAMPLING SCHEME AND CRITERIA FOR CONFORMITY FOR POCKET KNIVES

A-1. LOT

A-1.1 The pocket knives of the same shape, dimensions and manufactured from the same raw materials under essentially similar conditions of manufacture shall constitute a lot.

A-2. SELECTION OF SAMPLE

A-2.1 To ascertain the conformity of the lot with the requirements of this standard, the number of knives to be selected at random from the lot shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SAMPLE SIZE AND CRITERION FOR CONFORMITY

LOT SIZE (NUMBER OF KNIVES IN THE LOT)	SAMPLE SIZE (NUMBER OF KNIVES TO BE SELECTED)	ACCEPTANCE NUMBER
(1)	(2)	(3)
Up to 100	5	0
101 " 150	8	0
151 " 300	13	1
301 " 500	20	1
501 and above	32	2

A-3. NUMBER OF TESTS AND CRITERION FOR CONFORMITY

A-3.1 The knives as selected according to **A-2.1** shall be tested for (a) shapes and dimensions (*see 3*), (b) hardness (*see 5.1*), (c) workmanship and finish (*see 6*), (d) soundness (*see 10.1*), and (e) staining (*see 10.2*).

A-3.2 Criteria for Conformity — The lot shall be declared conforming to the requirements of this standard if the condition given in **A-3.2.1** is satisfied.

A-3.2.1 The number of knives found defective for one or more characteristics mentioned in **A-3.1** is less than or equal to corresponding acceptance number given in col 3 of Table 1.

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones: 331 01 31, 331 13 75

Telegrams: Manaksanstha
(Common to all Offices)

Regional Offices:

	<i>Telephone</i>
Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002	{ 331 01 31 331 13 75
*Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola, CALCUTTA 700054	36 24 99
Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036	{ 2 18 43 3 16 41
Southern : C. I. T. Campus, MADRAS 600113	{ 41 24 42 41 25 19 41 29 16
†Western : Manakalaya, E9 MIDC, Marol, Andheri (East), BOMBAY 400093	6 32 92 95

Branch Offices:

'Pushpak', Nurmohamed Shaikh Marg, Khanpur, AHMADABAD 380001	{ 2 63 48 2 63 49
‡Peenya Industrial Area 1st Stage, Bangalore Tumkur Road BANGALORE 560058	{ 38 49 55 38 49 56
Gangotri Complex, 5th Floor, Bhadbhada Road, T. T. Nagar, BHOPAL 462003	6 67 16
Plot No. 82/83, Lewis Road, BHUBANESHWAR 751002	5 36 27
53/5, Ward No. 29, R.G. Barua Road, 5th Byelane, GUWAHATI 781003	3 31 77
5-8-56C L. N. Gupta Marg (Nampally Station Road), HYDERABAD 500001	23 10 83
R14 Yudhister Marg, C Scheme, JAIPUR 302005	{ 6 34 71 6 98 32
117/418 B Sarvodaya Nagar, KANPUR 208005	{ 21 68 76 21 82 92
Patliputra Industrial Estate, PATNA 800013	6 23 05
T.C. No. 14/1421, University P.O., Palayam TRIVANDRUM 695035	{ 6 21 04 6 21 17

Inspection Offices (With Sale Point):

Pushpanjali, First Floor, 205-A West High Court Road, Shankar Nagar Square, NAGPUR 440010	2 51 71
Institution of Engineers (India) Building, 1332 Shivaji Nagar, PUNE 411005	5 24 35

*Sales Office in Calcutta is at 5 Chowringhee Approach, P. O. Princep 27 68 00
Street, Calcutta 700072

†Sales Office in Bombay is at Novelty Chambers, Grant Road, 89 65 28
Bombay 400007

‡Sales Office in Bangalore is at Unity Building, Narasimharaja Square, 22 36 71
Bangalore 560002